

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please amend claims 64 and 65, and add new claim 67, as follows:

Claims 1-31 (Cancelled).

32. (Previously Presented) A method for producing a metal wire for reinforcing an elastomeric material, wherein the metal wire comprises:

a metal core comprising steel; and

a metal coating layer comprising a ternary metal alloy;

wherein the metal core comprises a predetermined initial diameter,

wherein the method comprises:

submitting the metal core to at least one surface treatment;

thermally treating the metal core;

depositing the metal coating layer on the metal core; and

drawing the metal-coated metal core;

wherein the at least one surface treatment predisposes a surface of the metal core to being coated with the metal coating layer,

wherein the metal coating layer is deposited on the metal core to a predetermined initial thickness using a plasma deposition technique, and

wherein the metal-coated metal core is drawn until:

the metal core comprises a final diameter smaller than the predetermined initial diameter; and

the metal coating layer comprises a final thickness smaller than the predetermined initial thickness.

33. (Previously Presented) The method of claim 32, wherein submitting the metal core to at least one surface treatment, thermally treating the metal core, depositing the metal coating layer on the metal core, and drawing the metal-coated metal core are carried out in a substantially continuous manner.

34. (Previously Presented) The method of claim 32, wherein the metal core is conveyed through a sequence of respective positions for submitting the metal core to at least one surface treatment, thermally treating the metal core, depositing the metal coating layer on the metal core, and drawing the metal-coated metal core, at a speed in a range from about 10 m/min to about 80 m/min.

35. (Previously Presented) The method of claim 32, wherein submitting the metal core to at least one surface treatment comprises:

pickling the metal core in a pickling bath; and
washing the pickled metal core in water.

36. (Previously Presented) The method of claim 35, further comprising:
drying the washed metal core.

37. (Previously Presented) The method of claim 36, wherein drying the washed metal core is carried out using at least one blower.

38. (Previously Presented) The method of claim 32, further comprising: dry drawing the metal core before thermally treating the metal core.

39. (Previously Presented) The method of claim 32, wherein the plasma deposition technique is selected from the group comprising: sputtering, evaporation by voltaic arc, plasma spray, and plasma-enhanced chemical vapor deposition (PECVD).

40. (Previously Presented) The method of claim 32, wherein depositing the metal coating layer on the metal core is carried out in at least one vacuum deposition chamber at a first predetermined pressure.

41. (Previously Presented) The method of claim 40, wherein depositing the metal coating layer on the metal core is carried out a plurality of times.

42. (Previously Presented) The method of claim 40, wherein the first predetermined pressure is in a range from about 10^{-3} mbar to about 10^{-1} mbar.

43. (Previously Presented) The method of claim 40, further comprising:
conveying the metal core in at least one pre-chamber at a second predetermined
pressure higher than the first predetermined pressure;
wherein the at least one pre-chamber is arranged upstream of the at least one
vacuum deposition chamber.

44. (Previously Presented) The method of claim 43, wherein the second
predetermined pressure is in a range from about 0.2 mbar to about 10 mbar.

45. (Previously Presented) The method of claim 32, further comprising:
descaling a wire rod; and
dry drawing the wire rod to obtain the metal core comprising the predetermined
initial diameter.

46. (Previously Presented) The method of claim 32, wherein the metal coating
layer comprises a first metal material different from a second metal material of the metal
core.

47. (Canceled).

48. (Previously Presented) The method of claim 32, wherein the metal coating
layer comprises a metal material selected from the group comprising: copper, zinc,
manganese, cobalt, tin, molybdenum, iron, and alloys thereof.

49. (Canceled).

50. (Previously Presented) The method of claim 32, wherein the brass comprises a copper content of about 60%-by-weight to about 72%-by-weight.

51. (Previously Presented) The method of claim 46, wherein the first metal material comprises a predetermined amount of a lubricating agent.

52. (Previously Presented) The method of claim 32, wherein the predetermined initial thickness is at least about 0.5 μm .

53. (Previously Presented) The method of claim 32, wherein the predetermined initial thickness is between about 0.5 μm and about 2 μm .

54. (Previously Presented) The method of claim 32, wherein drawing the metal-coated metal core causes the final diameter to be about 5-25% of the predetermined initial diameter.

55. (Previously Presented) The method of claim 32, wherein the final diameter is in a range from 0.10 mm to 0.50 mm.

56. (Previously Presented) The method of claim 32, wherein drawing the metal-coated metal core causes the final thickness to be about 5-25% of the predetermined initial thickness.

57. (Previously Presented) The method of claim 32, wherein the final thickness is in a range from 80 nm to 350 nm.

58. (Previously Presented) The method of claim 32, wherein the predetermined initial diameter is between about 0.85 mm and about 3 mm.

59. (Previously Presented) The method of claim 32, wherein the predetermined initial thickness is between about 0.5 μm and about 2 μm .

60. (Canceled).

61. (Previously Presented) A method for producing a metal cord for reinforcing an elastomeric material, the method comprising:
producing a plurality of wires by the method of claim 32; and
stranding the plurality of wires.

62. (Canceled).

63. (Previously Presented) The method of claim 32, wherein depositing the metal coating layer on the metal core is carried out via a single deposition step.
64. (Currently Amended) The method of claim 32, wherein the ternary metal alloy of the metal coating layer comprises a Cu-Zn-X alloy, wherein X comprises at least one of manganese, cobalt, tin, molybdenum, and iron.
65. (Currently Amended) The method of claim 64, wherein depositing the metal coating layer on the metal core is carried out via the following deposition steps:
depositing a brass layer on the core; and
depositing a layer comprising at least one of manganese, cobalt, tin, molybdenum, and iron on the brass layer.
66. (Previously Presented) The method of claim 65, wherein the brass layer has a crystalline structure consisting of a face-centered-cubic brass.
67. (New) The method of claim 32, wherein the ternary metal alloy comprises one of manganese, cobalt, tin, and molybdenum.